

Interoffice Memorandum

From: Albert Ruiz-Vela

Date: January 3, 1997

To: Dan Even

Subject: **Monthly Report – December 1996
Product Development
& Engineering**

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**ORMCO CONFIDENTIAL
AND PROPRIETARY
INFORMATION –**

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EXHIBIT 12
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TYPE I (Built In-House)

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- AI-1. *Alexander Spirit* Brackets
- AI-2. Self-Ligating Brackets (Dr. Wildman)
- AI-3. Pre-formed Quick Nance Appliance (Dr. Hilgers)
- AI-4. *Alexander* Flat Bow Retainer Wires with Omega Loops
- AI-5. *Spirit MB* Expansion
- AI-6. Cantilever Crown Anchorage System (Dr. Mayes)
- AI-7. Disposable Metal Impression Tray
- AI-8. AEZ Instruments
 - a. Titanium Bird Beak Pliers
 - b. Flush-Cut Distal-End Cutter
- AI-9. Textured Molar Bands
- AI-10. *Orthos Accent* Buccal Tubes
- AI-11. *Orthos CM* Buccal Tubes
- AI-12. File Bender
- AI-13. Nanda Facebow
- AI-14. Gold Brackets
- AI-15. Burstone *Orthos* Cuspid Brackets with Horizontal Tube
- AI-16. Pre-formed Palatal Arch Appliance (Dr. Burstone)
- AI-17. Rapid Palatal Expanders
- AI-18. Molded *Power Os*

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TYPE II (Outside Vendor)

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TYPE III (Product Modifications)

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- III-1. Alternative Braze Material
- III-2. *Spirit* Bracket Material

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B. RESEARCH AND EXPLORATORY PRODUCT INVESTIGATIONS

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TYPE I (Built In-House)

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- BI-1. *Orthos-AD* Alexander Discipline Appliance System
- BI-2. *Orthos-AD/AP* Alexander Discipline Asian Prescription Appliance System
- BI-3. *CustomR₁* Custom Labial Appliance System
- BI-4. *CustomR₂* Custom Lingual Appliance System
- BI-5. Adhesive Pre-Coated Brackets
- BI-6. Metal Slot Ceramic Brackets
- BI-7. Mandibular Anterior Repositioning Appliance (Dr. Eckhart)
- BI-8. Moisture-Resistant Adhesive
- BI-9. Wedge-Shaped Neck Strap (Dr. Alexander)
- BI-10. *Orthos CM_F* in Spirit MB
- BI-11. *Orthos* Adjustable Placement Gauge
- BI-12. *Orthos AD* in Spirit MB
- BI-13. Aluminum Bracket
- BI-14. Ni-Ti Ligaturless Bracket
- BI-15. Bite Turbo Bracket
- BI-16. Tooth Shaped Pad
- BI-17. Titanium Brackets
- BI-18. Titanium Buccal Tubes
- BI-19. Titanium Bands

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BI-20. Material Research for Archwires

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BI-21. Bracket Packaging

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BI-22. Ormco Class II Jumper

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BI-23. Low Cost RPE

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BI-24. *Wildman* Lingual Bracket

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TYPE II (Outside Vendor)

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BII-1. Reverse-Curve *Copper Ni-Ti* Archwires

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BII-2. Disinfectant Solution

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C. PRODUCT IMPROVEMENT / MANUFACTURING SUPPORT ACTIVITIES

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CI. *AOA* (Laboratory) Engineering Support

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CII. Kira Training and Support

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CIII. CE Marking

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CIV. *Copper Ni-Ti* Wire

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D. OTHER DEPARTMENT ACTIVITIES

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DI. Documentation

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DII. Capital Appropriation Requests

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DIII. Bond Toughness Impact Tester

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ORMCO CONFIDENTIAL AND PROPRIETARY INFORMATION**A. NEW PRODUCT DEVELOPMENT ACTIVITIES****BI-3. *CustomR*, CUSTOM LABIAL APPLIANCE SYSTEM** (Project 853-E HR Ghalambor / Eric Chapoulaud)**b. 3D Digitizing** (Eric Chapoulaud)**1) Accomplishments / Status**

- ☒ Specified and built Reference sphere for view-melting protocol. Defined a Standard sphere with grooves for calibration check.
- ☒ Calibration of the Scanner using these elements. The scanner can be aligned and calibrated within 10 microns, insuring very accurate view-melting.

2) Goals For January

- ☐ Calibration Protocol: Implement the automatic view-melting method in the Calibration program (Background task).
- ☐ Calibrate the second sensor.
- ☐ Develop interfacing program allowing set-up of the scanning procedure using the global sensor and user defined views.

3) Major Project Milestones

- ⊙ Bite registration manufacturing: February 1996.

DIII. BOND TOUGHNESS IMPACT TESTER (Project 959; Craig Andreiko / Eric Chapoulaud)**a. Accomplishments / Status**

- ☒ No test done this month.

b. Goals For January

- ☐ No Test to be done

c. Major Project Milestones

- ⊙ No major milestones.